

FOLIO

NSERC Receives Budget Increase

Ottawa, (14 February)—The Hon. Donald J. Johnston, Minister of State for Science and Technology and for Economic Development, today announced an \$18 million budget increase for the Natural Sciences and Engineering Research Council (NSERC).

Speaking to more than 250 scientists and engineers gathered in Ottawa this week to evaluate research proposals submitted to the Council, Mr. Johnston noted that the increase will bring NSERC's budget to \$244 million this fiscal year. It will enable the Council to continue its program of helping universities acquire state-of-the-art research equipment.

Since the Council's Five-Year Plan was announced in 1980, its budget has grown by \$124 million. Over the three-year period, about \$120 million

has gone to the acquisition of new scientific equipment. In addition, the support to university training initiatives has grown from \$10 million to \$36 million a year within the same period. NSERC has already allocated \$47 million for this purpose in

1983-84.

Mr. Johnston noted that the Council's concerted effort to improve university research and research training is a major component of the government's effort to increase research and development in Canada.

NSERC is the largest single funder of university research and development. It offers scholarship and fellowship programs for postgraduate studies and postdoctoral research.* □

* Minister of State for Science and Technology

And the Winners are . . .

The Natural Sciences and Engineering Research Council (NSERC) has announced the results of its 1982-83 strategic grants competition. The grants, awarded for university research in selected fields, come this year to a total of \$25.8 million.

Of the 481 grants awarded, 244 were new grants totalling \$12.3 million, and 237 were instalments of on-going grants. This latter group has received \$13.5 million in support.

Among the seventeen University of Alberta individual researchers and research teams that have gained NSERC support is a group in the Department of Mechanical Engineering working under the direction of J.D. Dale. That group has received a strategic grant of \$50,000 a year for three years to conduct research at the Alberta Home Heating Research Facility, a collection of six woodframe single storey structures designed to test home heating strategies in a northern climate. Dr. Dale and his colleagues will investigate energy conservation techniques to determine potential energy savings and cost effectiveness. The results of the research could well have a significant impact on how we build our homes in this frosty clime, how we insulate them and heat them.

A list of University of Alberta

researchers who have gained NSERC support is given below in alphabetical order according to the field in which the strategic grants are awarded. The names of principal researchers are italicized:

Energy

C.E. Capjack (Electrical Engineering): Computer simulation codes for laser inertial confinement fusion experiments, \$36,096.

K.C. Chang (Mechanical Engineering): Refrigerant charged phase change systems for low grade waste heat recovery in cold regions, \$33,630.

J.D. Dale (Mechanical Engineering) with T.W. Forest, G.W. Sadler, and D.J. Wilson: Home heating, \$49,400.

D.I. Gough (Physics): Magnetometer array and magnetotelluric studies of geothermal areas, \$50,800.

F. Hron (Physics) with M. Razavy: Computer inversion of geophysical data using inverse methods and direct numerical modeling, \$78,000.

F.W. Jones (Physics): A study of sources and uses of geothermal energy in Alberta, \$50,000.

A.A. Offenberger (Electrical Engineering): Laser fusion research, \$106,495; equipment, \$43,420.

P.E. Smy (Electrical Engineering) with J.D. Dale (Mechanical Engineering), and R.M. Clements (University of Victoria): Cold starting of diesels with plasma ignition, \$54,144.

O.P. Strausz (Chemistry): Organic geochemical studies of Canadian crude oils, \$100,890.

Environmental Toxicology

F.F. Cantwell (Chemistry) with B.G. Kratochvil: Free heavy metal ion speciation and complexing capacity in natural waters by ion exchange, \$19,775; equipment, \$23,308.

D.L. Rabenstein (Chemistry): The chemistry of heavy metal toxicology, \$34,500.

Communications

W.A. Davis (Computing Science) with F. Chin, J. Tartar, P.A. Goud, R.W. Heuft, J.C. Muller, and U.M. Maydell: Communications for interactive access to distributed spatial data bases, \$100,000; equipment, \$33,400.

Food/Agriculture

R.E. Peter (Zoology): Induced spawning of fish by LRH-A, \$37,554.

All Aboard . . .

A limited number of tickets are still available to a special performance of the Royal Winnipeg Ballet to be held on Saturday, 19 March, at the new University of Lethbridge Performing Arts Centre. The performance has been organized by the University of Lethbridge as its way of recognizing the 75th Anniversary of The University of Alberta (see *Folio*, 27 January).

Tickets are \$85 and include bus transportation to Lethbridge and return, Saturday and Sunday lunch, overnight accommodation at the Lethbridge Lodge, and, of course, admission to the ballet and special reception. Reservations for the ballet should be made as soon as possible by contacting the University of Alberta Alumni Affairs Office at 432-3224. □

Open

W.A. Ayer (Chemistry) with Y. Hiratsuka: Phytochemical investigation of important forest diseases, \$50,000.
J.M. Martin-Sanchez (Chemical Engineering): Industrial implementation for adaptive predictive control system, \$25,200; equipment, \$19,480.
J. Tulip (Electrical Engineering) with

J. McKean (University of Alberta Hospitals): Laser neurosurgery, \$56,150; equipment, \$24,480.

Biotechnology

L.J. Reha-Krantz (Genetics): Developing and testing mutator DNA polymerases as useful reagents for in vitro mutagenesis, \$33,375.□

Selected EFF Funding Deadlines Approach

Application deadlines are fast approaching for two of the eight categories of expenditure under the University's Endowment Fund for the Future. 15 April is the next deadline date for submission of requests to the University/Community Special Projects Fund and the Fund for the Support of International Development Activities (FSIDA).

The University/Community Special Projects Fund was set up to provide "grants-in-aid of projects of special significance to this region of Canada, or of some particular significance to The University of Alberta." Eva Cherniavsky, administrator of the fund, explains that without limiting the scope of the fund, "its primary use

is for such projects as the purchase of works of art of particular significance to the area, the purchase of items of special geographic or subject interest, support of publications of significance to this region of Canada, the conservation of important exhibitions, or other projects to increase public awareness of collections in the University."

Projects supported by the University/Community Special Projects Fund are to be either of a capital nature or limited to a two-year operating period, and preference will be given to those projects and activities that cannot, in practice, be funded by other means.

The Fund for the Support of International Development Activities (FSIDA) is the most recent category of expenditure under the terms of the EFF (see *Folio*, 17 June 1982). Support from the fund is available on a University-wide basis, and proposals may be submitted either by individual staff members, departments or Faculties. Grants may consist of either: (1) support for an individual or University body in aid of travel, communications and other reasonable costs associated with the preparation of a formal project proposal for submission to a funding agency; or (2) support to a department or Faculty to cover minimal replacement costs (in most cases this will be teaching costs, but for staff whose primary responsibilities are counselling or administrative, costs of replacement staff will be considered) up to a maximum of four months for a faculty member participating in an international development project.

Since FSIDA is relatively new, the granting committee has determined

Political Science Welcomes Distinguished Visitor

Alfred Diamant, Professor of Political Science and European Studies at Indiana University, will be a guest of The University of Alberta for a two-week period beginning 28 February. Brought to campus under the auspices of the Endowment Fund for the Future-Distinguished Visitor program, Professor Diamant will be hosted by the Department of Political Science.

At the forefront of writers and critics of various schools of comparative politics for decades, Professor Diamant's chief interests are Western European government and politics, political bureaucracies, and governmental services. Born in Vienna and educated at Indiana and Yale, he taught at the University of Florida and at Haverford College before moving to Indiana in 1967. He has held various administrative positions at all three institutions and has been a visiting professor at Yale, Columbia, Bochum, and the Brookings Institution. He has carried out important functions with the National

Science Foundation and the Ford Foundation. Among his many awards are a Guggenheim Fellowship, two Fulbright awards, and a Humboldt Fellowship. He has served in numerous instances as editor, editor-in-chief, and academic consultant, and is the author of two books and many scholarly articles and chapters.

Professor Diamant's visit to the University will include several lectures. On Monday, 28 February, at 3:30 p.m., he will deliver a lecture entitled "The U.S. Federal Bureaucracy Under the Reagan Presidency" in 10-4 Henry Marshall Tory Building. A public lecture on "Industrial Democracy in Western Europe: An Overview" will be presented on Wednesday, 2 March, at 8:30 p.m. in TL-12 Tory Building. And, on Wednesday, 9 March, Professor Diamant will present a third lecture, this on "The German Election," beginning at 8 p.m. in 10-Tory. The lecture series is free and open to the public.□

that, for this initial period, there will be no formal application form. Rather, applicants should submit a letter including information on the duration of the project, the name(s) and qualifications of those participating, and an indication of the context in which this project was requested (that is, the need for the project; its place in development efforts).

The committee has also decided that since deadline dates for submission to FSIDA have not previously been published, a special meeting will be held at the end of February to consider project proposals received by that date, for this year only. (Regular deadline dates for submissions to the University/Community Special Projects Fund are 15 April, 15 September, and 15 January. Deadlines for application to FSIDA are 15 April, 30 September, and 15 January.)

More information on the two EFF categories of expenditure can be

obtained by contacting either A. E. Zelmer, Associate Vice-President (Academic), 3-4 University Hall, telephone 432-3213, or Eva Cherniavsky, 3-27 University Hall, telephone 432-4588.

The Endowment Fund for the Future was established in November 1980, based on revenues realized from the sale of University Farm land to the provincial government. The sale of land generated \$14.4 million for the University and the estimated annual revenue from the proceeds of that sale is in the order of \$1.25 million.

The eight categories of expenditure under the terms of the EFF are: (1) Faculty of Agriculture and Forestry; (2) Henry Marshall Tory Chairs; (3) McCalla Research Professorships; (4) Distinguished Visitors; (5) Support the Advancement of Scholarship; (6) University/Community Special Projects; (7) Discretionary Fund; Vice-President (Research); and (8) Fund for the Support of International Development Activities.□

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Distinguished Researcher in the Chinese Language to Lecture

Edwin Pulleyblank of the University of British Columbia's Asian Studies Department will lecture here on his research concerning the origin of language.

Professor Pulleyblank's central area of inquiry has been the Chinese language, particularly the ancient pronunciation of that language. His pioneering studies in this area have led him to suggest that Chinese may be related to the Indo-European languages, a controversial and intriguing theory. This research, in

turn, spurred him to speculate on how man came to invent language in the first place. His lecture, entitled "The Beginning of Duality of Patterning in Language," will present the theory he has derived from his research in historical linguistics. Put very simply, his theory posits that one begins with consonants and derives vowels as connectives. In a more sophisticated form, the hypothesis is about the nature of the distinctive features which are used in all languages to differentiate the sounds that form

words.

This lecture provides an occasion for Professor Pulleyblank to visit his alma mater. He graduated from the Classics Department here in 1942. The most recent of the laurels bestowed on his scholarship has been

the 1982 Biely Award, UBC's top research prize. His lecture will be held on Wednesday, 2 March, at 7:30 p.m. in 2-11 Humanities Centre. The Departments of East Asian Languages and Literatures and Anthropology are sponsoring the event. □

New Centre for Gerontology

A new Centre for Gerontology has been established at The University of Alberta in response to strong initiatives from a range of people from across disciplines and Faculties. This work started in the fall of 1978 and developed through the efforts of the President's Committee on Gerontology, which was formed in the spring of 1979. Office space for the Centre has been provided by the Dean of Arts in 6-12 Humanities Centre (telephone 432-5975).

The primary goal of the Centre is to strengthen and facilitate research activities in the field of ageing, including multidisciplinary and interdisciplinary efforts. In addition, the Centre aims to assist in course and curriculum development in this area and to enhance contributive links with

the larger community.

Since the Centre is unfunded, current efforts are being directed toward attracting research and operational funds with the aim of creating a stable financial base. Advice and suggestions concerning this effort would be greatly appreciated. In the meantime, *ad hoc* working groups are being established in order to pursue initial Centre projects.

Colleagues interested in participating in Centre activities are asked to contact Sharon McIrvin Abu-Laban, Chairperson of the Advisory Board. Professor Abu-Laban may be reached at the Centre between 2 and 4 p.m. daily or messages may be left at 432-5234. □

Double Anniversary at Faculté Saint-Jean

This year Faculté Saint-Jean celebrates not only the 75th Anniversary of the University but also its own seventy-five years. The Juniorate of St. John the Apostle was founded in Pincher Creek in 1908 and moved to Edmonton the following year. It was established on its present Bonnie Doon site in 1911, the year Athabasca Hall was opened. After several transformations over the years, College Saint-Jean emerged as an integral part of The University of Alberta, receiving its official status as a Faculty in 1977. Its name was

changed to Faculté Saint-Jean the following year.

As part of the celebrations, an Open House will be held during the weekend of 18 to 20 March which will include many displays and presentations. A major event is alumni homecoming on 19 March. It will be topped off with a gala banquet and dance in the evening at the Faculté Alumni, friends, and the University community are most welcome. For further information and tickets to the gala, call Diane at 468-1254 extension 207. □



More "high technology" for the computer-assisted-design and computer-assisted manufacture (CAD-CAM) system arrived recently. The doors in the Civil/Electrical Engineering Building wouldn't accommodate the photoplotter (to be used to generate artwork for printed circuit board fabrication) so a thirty-five ton crane hoisted it to this fourth floor window and it was subsequently installed.

Is Community Service a Characteristic of our University?

In the Office of Community Relations, we are asked to bring our University closer to the people we serve. And for good reason, for how many times have we heard of an alienation between the larger community and the University? How many times have we been asked about the real value of our institution?

Of course, we reply that the University in its teaching and research has a significant and beneficial impact on our society, especially in Edmonton and northern Alberta. The breadth of our academic offerings and our interest and vocational courses is used as evidence, as is the formative research undertaken in such areas as the health sciences and education. We cite also the multimillion dollar operating budget that is expended for the most part in our province. We even compare ourselves at times to an industry that, by virtue of its need for staff and services, injects into the local economy substantial sums of money.

Still, there is something missing in all this. It is an insistence that the lifeblood of our University and society is people. It is the contributions that people make and not our size that defines the greatness of our institution. It is also a truism that our institution and our communities are inextricably linked. After attending or presenting classes during the day, gown goes home to town via the grocery store.

Community Relations is asked to

bring the University closer to the people of Alberta. One way we can do this is to demonstrate publicly that University of Alberta people are involved in their communities; that, in a very real sense, there is no dichotomy between town and gown.

So, Community Relations would very much like to know of people who are actively engaged in community service. Let us use such people and their activities as ammunition (though not cannon fodder) against our detractors who so authoritatively speak of our "ivory tower mentality."

For example, let us take pride in the

student who spends much of his time helping underprivileged children at summer camp. Let us point out the fact that the hard-working Girl Guides Commissioner is a long-time member of our staff. The local soccer coach is not a head-in-the-clouds academic but he does teach geography.

Community service is an important aspect of what we and our institution are all about. Community Relations would like to publicize such activity, when appropriate, to indicate that University people (academic and non-academic staff, graduate and

undergraduate students) do make significant contributions to society in ways not necessarily related to their work and studies.

Please send to the Editor of *Folio* names of, and information about, people whom you know to be engaged in community service at any level, whether it be as a member of some cultural organization or as the lonely midnight writer who hammers out the community league news bulletin. Such information when used judiciously can only help to advance our cause and enhance our image in the public eye. □

Eminent Zoologist to Don Distinguished Visitor Mantle

John Zachary Young (popularly known as J.Z.), a world renowned scientist, is scheduled to visit The University of Alberta as Distinguished Visitor in the Department of Zoology. He will be on campus from 14 to 29 March.

Professor Young is known to zoologists for his fundamental work on the octopus, which has thrown much light on the relationship between brain structure and behavior. According to F.S. Chia, Chairman of the Department of Zoology, it was a stroke of genius on his (Young's) part to choose such a fascinating and intelligent creature for his studies which have been mainly carried out at

the Stazione Zoologica in Naples. His studies on this invertebrate have also been a source of inspiration to many people in other fields such as psychiatry, neurology, and engineering. Dr. Chia says, "For example, W.K. Taylor devised an electronic brain model which could learn to discriminate between various shapes and even between portraits of people. Most biologists would feel pleased if they had achieved even a fraction of J.Z.'s original research, which has appeared in his books *A Model of the Brain* (1964) and *The Anatomy of the Nervous System of the Octopus* (1971)." In addition to these, he has written several other stimulating books of a less specialized nature which are read the world over: *Doubt and Certainty in Science* (1950), based on his BBC Reith Lectures, *The Life of Vertebrates* (2nd edition, 1962), *The Life of Mammals* (1957), *Introduction of the Study of Man* (1971), and *Programs of the Brain* (1976).

Professor Young went to Magdalen College, Oxford, and became a Fellow at this College in 1931, as well as a University Demonstrator at Oxford University. He remained at Oxford until 1945 when he was appointed Professor of Anatomy at University College London (UCL). He was elected to the Fellowship of the Royal Society London in 1945 and received the Royal Medal in 1967 and the Linnean Medal in 1973.

Professor Young has received numerous other honors and awards

including an honorary DSc degree from each of the following institutions: Bristol (1965), McGill (1967), Duke (1978), and Oxford (1979). He is a foreign member of the American Academy of Arts and Sciences and a member of the American Philosophy Society. He was President of the Marine Biology Association of the U.K. in 1976.

When Professor Young, a zoologist from Oxford, was appointed to the Chair of Anatomy at UCL he had already acquired an imposing reputation for his studies on the nervous system of the octopus and on the regeneration of mammalian nerves, a subject of special clinical importance during the Second World War. With his arrival at UCL, a traditional Anatomy Department received encouragement and leadership which led to the establishment of one of the finest and most renowned departments of experimental biology, a department where young biologists both within and outside the medical field have found opportunities for stimulating work.

Professor Young's influence on teaching has been equally impressive. Soon after his appointment at UCL, he encouraged the revision of the teaching of gross anatomy and substantially reduced the burden it imposed on medical students.

Though he has formally retired as Head of the Department of Anatomy, he continues his active research work from which all his colleagues know

Computing Science Opens Doors to Public

The General Services Building on the western edge of the University campus will be a busy place on Saturday, 26 February. For on that day the Department of Computing Science will throw open the proverbial computer door in a day-long open house.

Beginning at 10 a.m., visitors will have available to them a variety of activities: tours of computer equipment; graphics/digitizing demonstrations; PLATO

demonstrations; exhibits of Apple, TRS-80, and IBM PC microcomputers; how-to-program seminars; computer games; and concessions and displays.

More information on the day's events, designed for people who are interested in an introduction to and the operation of computers, may be obtained by contacting George Carmichael, Programmer Analyst, Department of Computing Science, at 432-2261. □

J.Z. will never retire. He is Emeritus Professor at UCL and is associated with The Wellcome Institute for the History of Medicine, London.

At The University of Alberta, Professor Young will deliver seminars in the Departments of Zoology,

Psychology, and Philosophy. The details of these seminars will appear in *Folio* shortly. For further information on Professor Young's visit, contact S.K. Malhotra, Department of Zoology, at 432-5956. □

Familial Forum Scheduled

Margrit Eichler, Professor in the Department of Sociology in Education at the Ontario Institute for Studies in Education, Toronto, will be visiting The University of Alberta soon. Dr. Eichler is the author of *Canadian Families Today: Recent Changes and Their Policy Consequences* which will be published this spring.

On 28 February Dr. Eichler will address a free public forum on "Women and Men in Families: Changes and Their Consequences." Recent trends in Canadian society impacting on "the family" have resulted in a different creature which calls itself "family." What are these trends and what do these changes mean for women, men, and for children? What are the consequences for our understanding of "family?" The forum will be held at 7:30 p.m. in 2-115 Education North.

The following day Dr. Eichler will lead a workshop entitled "A Critical Analysis of Policies and Practices Which Affect Families." The workshop will examine the assumptions underlying such policies and practices and their impact on, for example, welfare, disability and pension benefits, support obligations, and income tax law. The workshop will be held in Corbett Hall from 10 a.m. to 3 p.m.

Dr. Eichler is Past President of the Canadian Institute for Research on the Advancement of Women and Co-Founding Editor of *Resources for Feminist Research*. During her stay, she will also address the Academic Women's Forum.

For further information on the public forum and workshop, contact the Women's Program, Faculty of Extension, at 432-3093. □

Robert Dean Tidsbury, 1922 - 1983

Robert D. Tidsbury, Central Stores Manager, passed away suddenly on 7 February 1983 at the age of 60.

Mr. Tidsbury was born in Edmonton and received his formal education here before serving three years in the Armed Forces (navy) as leading telegraphist. During this period he was involved in convoy duty crossing the Atlantic.

After his discharge from the navy, he began his warehousing career. In 1950 he was employed by Rowe & Sons Ltd. in Vermilion as parts manager. During this period Mr. Tidsbury and his wife, Joan, operated a retail paint agency, hobby shop and custom building renovation firm in Vermilion. By 1956 he was self-employed doing renovations and running their shop. In 1959 he returned to Rowe & Sons Ltd. as parts manager, and stayed until 1965 when he took on the responsibility of Caretaker Supervisor for the Alberta Department of Agriculture. He joined The University of Alberta, Department of Physical Plant, in 1969 in the position of Materials and Equipment Co-ordinator, which progressed to the position of Building Services Co-ordinator. His direct responsibilities included listing and

selection of materials and equipment, development and maintenance of inservice training programs, and responsibility for service staff and operations in a group of campus buildings. The materials testing program and work procedures developed by Mr. Tidsbury attracted considerable interest on the part of the Alberta Department of Public Works, other universities and organizations, and by companies manufacturing and distributing chemicals to industry.

Mr. Tidsbury was appointed Central Stores Manager in April 1981. This position was a definite challenge as the inventory held is in the proximity of \$1,000,000 in a wide variety of products.

For many years the Tidsbury were a very active couple in their church, especially working with youth groups. He was a devoted family man who enjoyed golfing, cycling, skiing, racquetball, hiking and other outdoor sports.

Mr. Tidsbury is survived by his wife, Joan, and sons, David, Gary, Blake, Robert, and Daniel.

The Materials Management Department is saddened by this untimely loss and expresses its deepest sympathy to Joan and her family. □

First Forestry Development Grant Awarded University

The University of Alberta recently received the first of the new Forestry Development Grants from the Natural Sciences and Engineering Research Council Canada (NSERC). The grant, for \$100,000 per year for two years and renewable for a third year, funds the project "Genetic variation and adaptation among populations of lodgepole pine in Alberta," supports the development of the forest genetics group, and encourages cooperation with associated departments at the University and outside agencies.

The grant, administered by Bruce Dancik of the Department of Forest Science, also provides partial support for a second full-time

forest genetics faculty member, L. Zack Florence; travel to facilitate contact with associate academic staff member F.C. Yeh of the British Columbia Ministry of Forests in Victoria; support for a laboratory technologist; graduate student support; equipment; supplies; and research travel.

Other support for the program comes from an agreement with the Alberta Forest Service, which provides \$27,758 this year and renewable support of \$30,000 to \$35,000 per year for up to four years in support of collaborative genetics work between the University and Province.

The project will investigate the genetic structure of populations,

micro-habitat differentiation, mating systems, adaptation, selection of desirable genotypes, and molecular genetics of lodgepole pine. Concentration of this group of forest geneticists and cooperators is making The University of Alberta a *de facto* centre of excellence in forest genetics. Cooperators within and outside the University include N.K. Dhir, Alberta Forest Service; J.I. Klein, Canadian Forestry Service; K. Morgan, C. Strobeck, and F.E. Nargang, Department of Genetics; K.O. Higginbotham (physiology) and A.K. Hellum (seed biology), Department of Forest Science; M.M. Micko (wood science), Department of Agricultural Engineering; and G.E. Ball,

Department of Entomology. Important corresponding cooperators include R.P. Pharis (University of Calgary) and W.M. Cheliak, Canadian Forestry Service (Petawawa).

The negotiated Forestry Development Grants were established by NSERC in response to needs to assist in developing greater research strength in the Canadian forestry schools. The grant scheme was encouraged by Environment Canada, which is concerned about both increasing the levels of forest research activity and educating the forest scientists who will be needed in increasing numbers to address the pressing problems in forest resource science and management. □

March 1983

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7 ■ GFC Executive

14 ■ Until 20 March, Conference on
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1 ■ Last day for receiving applications
for admission to Spring Session 1983

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rful Name Donated

*' yet to lack a proper term for that great cuboidal appendage to the
igned for Universiade. Nothing I have heard so far has taken hold.
pity, because the fieldhouse is there, is mightily obvious and can best
ated to our fond use by the power of positive thinking. To me, by its
d color, it instantly became "The Big Cheese." I donate this name, and
ipts accruing from it, to the University. The name is neither unkind,
ne, nor labored. It is descriptive, indulgent and simple. To say it is to
d it should certainly help those giving directions to pedestrians lost on
us when Universiade comes home.*

J. R. Nursall, Zoology

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|--|--|---|-----------------------------|
| | thursday 3 | friday 4 ■ Board of Governors | saturday 5 |
| | 10 | 11 | 12 |
| | 17 | 18 ■ Until 20 March, Faculty Open Houses: Education, Faculté Saint-Jean, Physical Education and Recreation | 19 |
| | 24 | 25 ■ Until 26 March, Pacific Northwest Renaissance Conference | 26 |
| | 31 ■ 75th Anniversary Lecture by Seymour Martin Lipset on "Radicalism or Reformism The Sources of Working-Class Politics" ■ Last day for receiving registrations for Spring Session 1983 | | |



Emil Skarin Fund

Invitation to apply

Applications are invited to the Emil Skarin Fund Committee of the University Senate for a 1983 project or projects worthy of financial support amounting to approximately \$5,000 from the Fund.

Projects must be of value both to the public as well as to The University of Alberta; be consistent with the general aims and purposes of this University; and not normally funded by it.

Preference will be given to projects with an emphasis on the humanities and the arts, but there are no restrictions on the nature of eligible projects. Project proposals should include objectives, schedule, budget, and procedures for organization and evaluation.

Application forms are available on request, and should be returned, completed, by 1 March 1983 to:

*The Chairman
Emil Skarin Fund Committee
The University of Alberta
150 Athabasca Hall
Edmonton, Alberta T6G 2E8
Tel. 432-2268*

Games People Play: Colloquium to Focus on Impact of Video Games

Video games. Every day, it seems, a new game is invented, more complicated, more exciting, more intense than the one before it. "Pac Man," "Donkey Kong," "Demolition Derby," "Death Race," "Space Invaders." Such is the lingo of the day.

While there is little doubt that the popularity and selection of video games has increased tremendously in the past two or three years, there is doubt indeed about the value of such games. Increasing concern is being expressed by parents, teachers, and community leaders about the effects of video games on the behavior of children, teenagers, and others in society.

In an effort to deal with this concern, the Department of Recreation Administration is sponsoring a day-long colloquium on video games and their impact on the individual and the community. "Games People Play," to be held on Saturday, 19 March, in B-95 Henry Marshall Tory Building, will attempt to outline the range and scope of social concerns regarding video games, place them in their proper historical perspective, and discuss what is really known about the effects of such games.

The colloquium will be interdisciplinary in nature, and will feature four speakers from different fields of study. Thomas Burton, Professor and Chairman of the Department of Recreation Administration, is an economist by training and a planner by profession. His interests lie in the study of leisure, its role in the community, and its effects on lifestyle. He will lead off the seminar with a talk entitled "Social Menace or Moral Panic: Community Concerns and Video Games." "The advent of rock and roll in the '50s caused a moral panic to spread through the country," says Dr. Burton. "And it seems that the same sort of panic is now focussed on video games." Dr. Burton will lay out the main issues surrounding society's concern over video games and raise some of the important questions that must be answered.

Next up will be Colin Veitch, a

graduate student in the Department of Physical Education. His talk, "From Pool Hall to Pac-Man: A History of the Amusement Parlour in Edmonton," will put into perspective the relationship between the growth of the video game phenomenon and popular feeling to it.

Tom Nelson, Professor and Chairman of the Department of Psychology, will then take the floor. Drawing on his extensive research background and a number of recent, relevant studies in video games, he will look at the known, observable effects of various video games on behavior patterns. Do long hours in front of a video game effect behavior? Are anti-social games such as "Death Race" and "Space Invaders" more likely to cause behavioral problems than pro-social video games like baseball, soccer and football? Such questions will be explored by Dr. Nelson in his presentation.

Taking this approach a step further will be Bill Meloff, Associate Professor of Sociology, whose teaching and research interests lie in the areas of adolescence, collective behavior, and mass communication. He will speak on "The Social Impact of Video Games," examining the reaction of

society to video games, and looking at possible legal and moral implications.

The four talks will take place during the morning, with the afternoon session centring around a panel and discussion format. "The colloquium, while relying on academic research for background, will be anything but academic in nature," states Dr. Burton. "The purpose of the seminar is to present to the layman—to parents, educators, community groups—the basic issues involved in the question of video games and their effects. What do we really know? Is there justification for increasing concern? And where do we go from here? This is what the colloquium is all about."

"Games People Play" is being sponsored by The University of Alberta Department of Recreation Administration, the Recreation Students' Society, and the University of Alberta Chairmen's Council. The registration fee of \$12 includes lunch. Registration details (it should be noted that registration is limited) and further information on the colloquium may be obtained by contacting the Department of Recreation Administration, 432-5171. □

Lecture to Centre on Career Planning for Women

In the spring of 1982 J. Gordin Kaplan, Vice-President (Research) established the Women in Scholarship, Engineering and Science Task Force (see *Folio*, 28 October 1982). Known to many as WISEST, the task force is made up of several "working parties," each of which is responsible for a particular aspect of the relationship between women and the sciences.

One of these sub-groups, headed by Margaret-Ann Armour, Department of Chemistry, is The University of Alberta Women in Science and Engineering (UAYs). As part of its continuing effort at "consciousness-raising" among students in science and engineering,

UAYs is sponsoring a special lecture by Ardelle Dudley.

Dudley, an adult educator and counsellor with a special interest in career planning and development for women, is associated with the Faculty of Extension Women's Program. Her lecture, entitled "Putting Your Best Foot Forward (and Stepping Over the Barriers)," will deal with the personal, environmental, and social factors which influence women's career planning and the importance of communication and support systems. The lecture, which is free and open to the public, will take place on Wednesday, 2 March, at 5 p.m. in 205 Civil/Electrical Engineering Building. □

Middle Management Course Set

Once again, the Canadian Association of University Business Officers (CAUBO) is sponsoring a "middle management" course for university administrators. The course, to be held 12 to 18 June at the Banff Centre, will focus on developing an awareness and an understanding of the principles of university management, labor relations, financial planning, and management of change/stress. A variety of teaching methods will be used including lectures, group discussions, case studies, and small group exercises. The schedule will be rigorous and participants should expect to work evenings.

The University of Alberta will sponsor two or three participants to the week-long course (depending upon the availability of positions), with applicants coming from among the ranks of Administrative and

Professional Officers (APOs). Applicants should have several years of supervisory work experience and hold positions whose responsibilities include policy consultation and implementation.

Applications to attend the CAUBO course should be submitted to Brian McDonald, Associate Vice-President (Academic), 3-7 University Hall, before the end of February. In addition to the normal application material (name, position, etc.), the applicant should submit a brief statement on his or her career goals, as well as a statement from his or her supervisor that the application has supervisory support.

More information on the middle management course may be obtained by contacting Mr. McDonald at 432-4955. □

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication

Coming Events

Lectures and Seminars

Slavic and East European Studies Conference

24 to 26 February The conference will be on the topic "Central and East European Ethnicity in Canada: Adaptation and Preservation." MacDonald Hotel. For further information, please call 432-7033.

1 March, 3:30 p.m. M. Yurkevich will speak on "The Ideology and Program of the Organization of Ukrainian Nationalists, 1929-1950." 311 Athabasca Hall.

Department of Philosophy

1 March, 3:30 p.m. R.I.G. Hughes, Yale University, will speak on "Some Consequences of the Use of Formalism in Quantum Mechanics." L-2 Humanities Centre.

3 March, 3:30 p.m. J.J. MacIntosh, University of Calgary, will speak on "Container Verbs, God's Existence, the Logical Impossibility of Writing Certain Sentences, and Related Topics." L-2 Humanities Centre.

Med Micro Seminar

2 March, 3 p.m. Curtis G. Gemmell, Bacteriology Department, University of Glasgow, will present a seminar entitled "Some Studies of the *In Vitro* Interaction of Human Leukocytes with Pathogenic Bacteria." 1-17c Medical Sciences Building.

Department of Botany

2 March, 3:30 p.m. John Coffin will present a lecture on "Roles of Folate Derivatives in Plant Mitochondria." M-137 Biological Sciences Building.

9 March, 3:30 p.m. Robert Ellis will speak on "Understory Development in the Boreal Forest." M-137 Biological Sciences Building.

Department of Religious Studies

2 March, 4 p.m. J. Forrest will present a seminar entitled "John Milton: Christian Humanist." L-2 Humanities Centre.

Department of Health Services Administration and Community Medicine

2 March, 7 p.m. Karel Marha, Faculty of Medicine, University of Toronto, will speak on "V.D.T.'s and Radiation." 2-117 Clinical Sciences Building.

Departments of East Asian Languages and Literatures and Anthropology

2 March, 7:30 p.m. Edwin Pulleyblank, University of British Columbia, will present a lecture on "The Beginning of Duality of Patterning in Language" 2-11 Humanities Centre.

Department of Marketing and Economic Analysis

3 March, 11 a.m. Bohdan Hawrylyshyn, Director of the International Management Institute in Geneva, will present a seminar entitled "Preparing Managers for the New World Order." Heritage Lounge, Athabasca Hall.

3 March, 2 p.m. James Gillies, Faculty of Administrative Studies, York University, will conduct a seminar entitled "Business Government Relations in Canada: Where Are They Going?" 457 Central Academic Building

Department of English

3 March, 12:30 p.m. "Four in One." A reading by four diverse writers - Bonnie Bishop, Eugene Buck, Inge Israel, and Lynne Van Luven. 2-42 Humanities Centre.

Department of Music

3 March, 1:30 p.m. Regula Qureshi, an ethnomusicologist, will speak on "An Ethnomusicologist Looks at Analysis." 2-32 Fine Arts Building.

Department of Romance Languages

3 March, 3:30 p.m. Louky Bersianik, a Quebec feminist writer, will read from her works, mainly in French. Her visit is being sponsored by the Canada Council. L-3 Humanities Centre.

Department of Anthropology

3 March, 3:30 p.m. Joel Wilbush will present a seminar on the "Investigation of the Female Climacteric: A Challenge to Conventional Wisdom." 14-6 Tory Building.

4 March, 3 p.m. Nicolas Van Der Merve will present a lecture on "Recent Developments in Radioisotope Research and Dietary Reconstructions." 14-6 Tory Building.

Department of Comparative Literature

3 March, 4 p.m. Lubomir Dolezel, University of Toronto, will lecture on "Kafka's Fictional World." Senate Chamber, Arts Building.

4 March, 10 a.m. Lubomir Dolezel on "Literary Communication." Senate Chamber, Arts Building.

Department of Classics

3 March, 4 p.m. M. Kosinski will speak on "Monastic Life in Greece," with emphasis on Mt Athos. The lecture will be illustrated. 1-8 Humanities Centre.

Departments of Geography, Botany, and Zoology

3 March, 4 p.m. Pierre Dansereau, Université du Québec a Montréal, will give a public lecture entitled "Land Occupation and Land Use." 3-36 Tory Building.

Department of Art and Design

3 March, 7 p.m. Roland Brener, sculptor, Chairman of the Department of Art at the University of Victoria, will present and discuss his art work. 2-20 Fine Arts Building.

4 March, 2:30 p.m. A panel discussion on "Some essentials in the Teaching of Visual Communication Design." Panelists: Peter Bartl, Jorge Frascara, Walter Jungkind. Moderator: Ronald Davey. 2-20 Fine Arts Building.

Department of Industrial and Legal Relations

3 March, 8 p.m. Kenneth P. Swan, Queen's University, will present a seminar on "New Frontiers and Old Vistas in Grievance Arbitration and Adjudication." 235 Central Academic Building

4 March, 11 a.m. Kenneth P. Swan will speak on "Comparabilities and Interest Arbitration: What Direction or Way Out?" 457 Central Academic Building.

Department of Computing Science

4 March, 3 p.m. M. Newborn, School of Computer Science, McGill University, will present a colloquium "Are Two Heads Better Than One?" 617 General Services Building

Department of Geography

4 March, 3 p.m. Derrick Sewell of the University of Victoria, will lead a colloquium by giving a paper entitled "When Do Environmental Problems Become Strategic Political Issues?" 3-36 Tory Building.

Department of Zoology

4 March, 3:30 p.m. Hans Ris, Department of Zoology, University of Wisconsin, will speak on "Looking at Cells with a Million Volt Electron Microscope." 345 Earth Sciences Building.

Faculty Women's Club

9 March, noon The Faculty Women's Club Spring Luncheon will be held at the Faculty Club, Papaschase Room. Elsie Achuff will provide a musical program. Tickets are \$8 each and may be purchased from Interest Group Convenors or Vi Moskalyk, telephone 435-6922. Guests are welcome

Music

Department of Music

26 February, 8 p.m. A faculty recital with Sylvia Shadick, pianist. Convocation Hall.

28 February, 8 p.m. A faculty recital with Jack Wilson, saxophonist. Convocation Hall

Exhibitions

Until 27 February. "Laura Evans Reid - 1883-1951" Ring House Gallery.

Until 27 February. "The Celebrating Drum" Ring House Gallery.

Until 15 March. "Unheard Music: 20th Century Poetry in Rare and Illustrated Editions." The Bruce Peel Special Collections Room, B-37 Cameron Library.

75th Anniversary Events

24 to 26 February. Faculty Open Houses Engineering and Science.

Until 28 February. Faculty publications by members of the Department of Sociology are now on display across from the circulation desk in Rutherford Library North, as part of the Library's commemoration of the University's 75th anniversary.

The Brahms Library Display. To coincide with the 150th anniversary of the birth of Johannes Brahms, materials relating to the works and life of the composer. Rutherford Library Galleria.

2 March, 3 p.m. 75th Anniversary Special Convocation. Convocation Hall.

Films

Chaplains' Association

3 March "The Long Search: Quest for Faith" film series features "Loose Ends" at 1:30 p.m. in the Newman Centre; 7:30 p.m. in 158 SUB.

Department of Romance Languages

Wednesdays, 3 p.m. The Italian Area of the Department of Romance Languages presents a series of films in Italian (without subtitles). For information, contact M. Verdicchio at 432-2003 Arts 17.

Radio and Television

Radio

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

25 February, 8 p.m. Voiceprint—"Hungarian Language and Literature." Guests: G. Bisztray, R. Zend, O. Botar.

26 February, 7 p.m. University Concert Hall—Concerts, recitals, and interviews with faculty and special guests of the Department of Music.

2 March, 7 p.m. Behind the Curtain—"The Nine Ladies" written by Paul Fieldhouse.

2 March, 7:30 p.m. Extensions—"Instructors in the Faculty of Extension discuss their subject areas."

2 March, 7:45 p.m. Perspectives—Issues underlying current events examined in lively debate format.

4 March, 8 p.m. Voiceprint - "Linguistic Taboos and Literary Censorship." Guests: I. Kalmar, J. Loller, S. Rees.

Television

Programs broadcast on Q-9 and C-13.

28 February, 9 p.m. Islam in Focus.

2 March, 9 p.m. Faculty Profiles—Faculty of Education, "Teaching the Teachers."

3 March, 9 p.m. Transplants—"Another advance of medical science in our lifetime."

Sports

24 February, 7:30 p.m. Basketball. Golden Bears vs. UBC Thunderbirds Varsity Gym.

25 February, 7:30 p.m. Hockey. Golden Bears vs. UBC Thunderbirds Varsity Arena.

26 February, 7:30 p.m. Basketball. Golden Bears vs. Victoria Vikings. Varsity Gym.

11 and 12 March, 6:30 and 8:30 p.m. CIAU Basketball Western Regional Tournament (hosted by the Golden Bears). Varsity Gym.

Matters of Faith

Lutheran Campus Ministry Worship each Sunday at 10:30 a.m. in the Newman Centre, the west basement of St. Joseph's College. All are welcome.

SUB Theatre

Films

24 and 25 February, 8 p.m. "The Wall."

Non-Credit Courses

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. Please phone 432-2261 first to confirm the dates. Payment is required in advance and clients who do not cancel two business days in advance will be charged. Contact Mardell Olson, Training Assistant, at 432-2261 or in 323 General Services Building, for more information.

Introduction to Computing at the University of A

Course number: 984. Date: 7 March. Time: 7 to 9 p.m. Fee: \$10. Prerequisites: No previous computing experience, but familiarity with a keyboard is required. Place: 351 GSB.

MTS and Editor Fundamentals

Course number: 985. Date: 9 and 11 March. Time: 7 to 9 p.m. Fee: \$15. Prerequisites: "Introduction to Computing" or equivalent working knowledge of a DECwriter terminal and the MTS system. Place: 351 GSB.

AJ510 Operation and Visual Editing

Course number: 986. Date: 15 and 17 March. Time: 7 to 9 p.m. Fee: \$15. Prerequisites: "MTS and Editor Fundamentals" and a good working knowledge of the File Editor. Place: 357 GSB.

MTS Overview

Course number: 987. Date: 22 and 24 March. Time: 7 to 9 p.m. Fee: \$15. Prerequisites: "MTS and Editor Fundamentals." Place: 315/357 GSB.

Introduction to APL

Course number: 983. Date: 25, 27, 29 April, 2, 4, 6 May. Time: 10 a.m. to noon. Fee: \$25. Place: 315/351 GSB.

Faculty of Extension

Division of Urban and Rural Planning

For further information on the courses listed below, call 432-2912.

An Introduction to Regional Planning

Date: 28 and 29 March. Fee: \$125.

Practical Implications of Slow Growth

Date: 24 and 25 February. Fee: \$150.

Residential Subdivision Layout (Level II)

Date: 28 February to 1 March. Fee: \$125.

An Introduction to Computer Graphics

Date: 14 and 15 March. Fee: \$135.

Business, Industrial and Professional Division

For further information on the courses listed below, call 432-5066 or 432-5067.

Management of Personal Finances: An Investment Strategies Approach

Date: 1 March to 17 May. Fee: \$135.

An Introduction to Employee Assistance Programs (co-sponsored by AADAC)

Date: 8 March. Fee: \$75.

Wills and Estate Planning

Date: 15 to 29 March. Fee: \$100.

Effective Speaking For Business and Professional People

Date: 21, 22 and 23 March. Fee: \$250.

The Integrated Office (Combining Word and Data Processing for Productivity Improvement)

Date: 30 and 31 March. Fee: \$275. For further information on the courses listed below, call 432-3037.

Maintenance Management

Date: 28 to 31 March. Fee: \$545.

Construction Contract Administration and Management

Date: 25 to 27 April. Fee: \$375.

Investigation of Structural Failures

Date: 2 May. Fee: \$135.

Field Trips

For further information on the courses listed below, call 432-5061.

Bamfield Marine Station Field Trip

Date: Orientation, 28 March. Fee: \$200.

Women's Program

For further information on the courses listed below, call 432-3093.

A Critical Analysis of Policies and Practices Which Affect Families

Date: 1 March. Fee: \$50.

Applied Behavioral Sciences Division

For further information on the courses listed below, call 432-5069.

Increasing Personal Energy

Date: 25 February. Fee: \$42.

Consultation Skills for Helpers

Date: 7 and 8 March. Fee: \$33.

Techniques in Corrections: Case Supervision in the Community

Date: 9 to 11 March. Fee: \$50.

Stress Management for Professionals

Date: 10 and 11 March. Fee: \$70.

Coping with Loss

Date: 11 and 12 March. Fee: \$35.

Personal Growth Through Self-Discovery

Date: 11 to 13 March. Fee: \$85.

Breathing for Health, Relaxation, and Vitality

Date: 12 March. Fee: \$40.

Shyness

Date: 8 Mondays commencing 14 March. Fee: \$50.

Management Studies for Women

For further information on the courses listed below, call 432-2230.

Dynamics of Organizational Behavior

Date: 7 and 8 March. Fee: \$165.

Understanding Business Numbers

Date: 11 and 12 March. Fee: \$165.

Cost Effective Office Management

Date: 12 and 13 March. Fee: \$165.

Real Estate Division

For further information on the courses listed below, call 432-5060.

Tactics, Techniques and Strategies in Real Estate Negotiations

Date: 8 April. Fee: \$110.

Foreign Investment in California Real Estate: Legal and Tax Strategy for the Non-resident Investor

Date: 11 April. Fee: \$110.

Investment Analysis—The Mathematics of Yield Measurement, Property Valuation and Ranking of Investment Alternatives

Date: 15 April. Fee: \$95.

Management of Income Property

Date: 22 and 23 April. Fee: \$175.

How to Survive, Compete, Expand and Make a Profit with Your Own Real Estate Company in the 1980s

Date: 28 and 29 April. Fee: \$175.

Starting Your Own Building and Development Company

Date: 6 May. Fee: \$110.

Sales and Acquisition—How to Avoid Making Costly Errors

Date: 11 May. Fee: \$95.

Increasing Your Sales Potential

Date: 13 May. Fee: \$110.

Second Mortgages: Investment for the 1980s

Date: 18 May. Fee: \$95.

Educational Travel

For further information on the courses listed below, call 432-3037.

Queen Charlotte Islands

West Coast Safari I

Date: 10 to 18 June. Fee: \$2,000 from Vancouver.

West Coast Safari II

Date: 12 to 20 August. Fee: \$1,530 from Vancouver

Fitness Programs

For further information on the courses listed below, call 432-2015.

Fitness and Lifestyle Programs

Spring Brochure available now.

Relaxercise

Date: Beginning 15 March. Fee: \$65.

Courses in Microelectronics

For further information on the courses listed below, call 432-3914.

Introduction to Microcomputers

Date: 8 to 31 March. Time: 6 to 9:30 p.m.

Microprocessor Interfacing

Date: 5 to 28 April. Time: 6 to 9:30 p.m.

Microprocessor Project

Date: 3 to 27 May. Time: 6 to 9:30 p.m.

Software Engineering

Date: 16 March to 7 April. Time: 7 to 10 p.m.

Notices

General Faculties Council

GFC's next meeting is scheduled for Monday, 28 February, at 2 p.m. in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 31 January 1983
3. Question Period
4. New Members of GFC 1983-84

Reports

5. Executive Committee Reports
 - 5.1 Executive Committee Minutes of 24 January 1983
 - 5.2 Executive Committee Minutes of 7 February 1983
 - 5.3 Executive Committee Minutes of 21 February 1983
6. Report of the Board of Governors
7. Report of the Nominating Committee

New Business

8. Council on Student Services (COSS) Proposed Changes to Terms of Reference
9. GFC Computing Committee Annual Report 1982
10. GFC Undergraduate Scholarship Committee (USC) Revised Proposal to Define a Medal Policy for The University of Alberta
11. Page Charges and Reprints
12. Other Business*

*To check on any late additions to the above agenda that may have resulted from the 21 February meeting of the GFC Executive Committee, kindly telephone the Secretary to GFC, 432-4965.

Calling All Graduate Students

Attention all registered graduate students: The University of Alberta Graduate Students' Association requires members to serve on the following bodies for 1982-83: GSA Executive, Graduate Faculty Council, General Faculties Council. If you are interested, contact the GSA offices at 432-2175 or attend the 8 March Council Meeting which will be held in the Back Room of the North Power Plant at 7:30 p.m.

Notice is hereby given that the Annual Meeting of the GSA will be held on Tuesday, 22 March, at 7:30 p.m. in the Back Room of the North Power Plant

Jeff Turner to Retire

Jeff Turner, Associate Librarian, will retire this spring after nineteen years of service with The University of Alberta Library. Mr. Turner will be honored at an informal reception in the Upper Lounge of the Faculty Club on Wednesday, 27 April, from 3 to 6 p.m. Staff, friends, and acquaintances are invited to join him on this occasion and to wish him well on his retirement.

Anyone wishing to contribute toward a retirement gift may do so by sending a cheque made payable to the *G. Turner Retirement Fund* addressed to: Mrs. Shirley Meyer, 5-12 Cameron Library.

Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), the Department of Pharmacology is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment prior to 15 April 1983.

Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee. Submissions should be sent to: Mrs. L. Pearson, PACCR Office, W4-13 Chemistry Building, Attention: The Pharmacology Unit Review Committee.

Unauthorized Use of Roadway South of SUB

Campus Security notes that a number of unauthorized vehicles are being driven past the restriction sign at the Stadium Car Park entry area onto the lane between the Students' Union Building and the Physical Education Complex.

On at least two occasions, reports have been received of pedestrians being "brushed" by such vehicles. Operators are cautioned that restriction will be enforced and offending operators will be ticketed.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residences.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboine Hall, telephone 432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 18 February 1983. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Programmable Typewriter Operator III (\$1,373-\$1,682) Secretariat

Technician I (\$1,426-\$1,754) Provincial Laboratory

Technician I (\$1,426-\$1,754) Home Economics Biochemistry Technologist I (Trust) (\$1,616-\$1,992) McEachern Laboratory

Laboratory Technologist I (\$1,754-\$2,171) Provincial Laboratory

Electronics Technician III (\$1,908-\$2,368) Computing Science

Console Operator (\$1,908-\$2,368) Computing Services

Programmer/Analyst III (Trust) (\$2,472-\$3,085)

Computing Science

Programmer/Analyst III (\$2,472-\$3,085)

Computing Services

For vacant library positions, please contact the Library Personnel Office, 5th floor, Cameron Library, phone 432-3339.

For sale - 'A'1 condition, semi-bungalow within walking distance of University. Six rooms, two baths, basement developed, double garage. \$86,500. Call Leona Sanborn. Royal Trust 426-6538, 483-9170.

Forced to sell - House, 11155-72 Ave. 1 1/2 storey, revenue potential, 1,350 sq. ft., five bedrooms, two baths, remodelled kitchen, new heated garage, landscaped. Terms available. Offers to \$85,000 Michael 1-243-6220.

For sale - \$74,500. Mill Creek. Revenue home, self contained suite, six appliances. Enquiries, Eleanor Duncan at Langley 434-7368, 436-3050. For rent - 1 Aug., for one year. Lendrum, fully furnished, three bedroom bungalow. \$800/month. 435-0155.

For sale - Lovely country home. Three acres, treed, landscaped. Three bedroom, bi-level, fireplace, sauna, partially developed basement. Excellent water, garden. Close to school. Ten miles east Sherwood Park. \$97,000. 922-4985. Exchange/rent - Large, four bedroom home. Aug '83 - July '84. Furnished, ten minutes Laval University. (French, English elementary, high schools). Professor on sabbatical. Claude Deblis, office 1218, Faculty Education, University Laval, St. Foy, Quebec. 1-418-656-2775.

For rent - Fully furnished, four bedroom convenient, Bluequill home August '83 - July '84. 432-5975, 436-9302. Spring in Vancouver - April/May sublet, waterfront condominium. Resort-like deepcove. Twenty minutes to downtown. Low rent in exchange plant/cat maintenance. Phone Dik Arendsen 403-421-4288, 604-929-4736. DeAnna Larson 481-0936, 436-5250. Spencer's.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of thirty words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

Accommodations available

For sale - Reduced to \$69,900, five appliances, downtown condo. Bedroom, den, underground parking. Resi Richter 483-9432, 455-4181. A. E. LePage.

For sale - Millcreek starter home. \$54,500. Resi Richter 483-9432, 455-4181. A. E. LePage

For sale - Windsor Park bungalow. Vendor anxious (all offers). \$129,900. Resi Richter 483-9432, 455-4181. A. E. LePage.

For sale - Reduced! Convenient, semi-bungalow, two fireplaces, revenue basement, beautiful trees (seven blocks to University). Also nine rooms, two storey, three baths, fireplace (\$109,000). DeAnna Larson 481-0936, 436-5250. Spencer's.

Courses in Microelectronics

INTRODUCTION TO MICROCOMPUTERS

the basics of programming microprocessors in assembler

March 8 - 31, Tuesdays and Thursdays
6:00 - 9:30 P.M.

MICROPROCESSOR INTERFACING

a "hands on" approach to interfacing

April 5 - 28, Tuesdays and Thursdays
6:00 - 9:30 P.M.

MICROPROCESSOR PROJECT

hardware & software design - build & keep a microprocessor project

May 3 - 27, Tuesdays and Thursdays
6:00 - 9:30 P.M.

SOFTWARE ENGINEERING

now to deliver reliable software that meets specifications on time

March 16 - April 7, Wednesdays and Thursdays
7:00 - 10:00 P.M.

for information and brochures, contact

ALBERTA MICROELECTRONIC CENTRE

A non-profit organization committed to improving profitability of Alberta industry by applying high technology

Room 544, Electrical Engineering Building
The University of Alberta
Edmonton, Alberta, T6G 2G7

Telephone: 432 - 3914

For sale - Distinctively designed, recently renovated, gracious, ten room, four bedroom, family home in Grandview offers four new bathrooms, two fireplaces, security system. Call Eleanor Duncan at Langley 434-7368, 436-3050.

For rent - Spacious suites, sensibly priced. Close to University. One bedroom \$325-\$350. Two bedrooms \$450. One bedroom with dishwasher, patio \$395. Nice grounds, heated pool. Baymore Manor, 11310 109 Ave. #11 422-4276.

For rent - Sabbaticant's South Garneau home, three bedrooms, one year-July. 433-0405, 432-5828.

For rent - July/Aug. Super environment 1,600 sq ft. bungalow, totally furnished, cedar sundeck, grand piano, library, fireplace, fine art. West end, 15 minutes to campus, \$800 per month 484-1997. References.

For sale - Walk to University from this exceptional, three bedroom, brick home with original features restored to perfection. Oak, stained glass window, hardwood floors. \$147,000. Grace 434-5595, Ray 436-3695. Royal Trust 438-5100.

For sale - University area. Clean, four bedroom home with two bedroom suite in basement (separate entrance). Located on 44'x130' lot, only \$94,900 Shirley 435-6113, David 434-9190. Royal Trust 438-5100.

Goods for sale

One, single membership, Riverbend Racquet Club \$300. Phone 432-8767 days, 435-0911 evenings. Solid teak bargains: large buffet, handpainted & glazed tiles (84"x20"x32") \$1,500; tall men's dresser, six drawers and three shelves behind doors (49"x42"x18") \$500; both \$1,700 425-8744.

English oak furniture. Six Cromwellian type dining chairs with hide seats. Oval drop leaf dining table with Jacobean legs and carved top. Buffet. Combined bookcase and bureau. Tea trolley. 433-9814.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A-105 St. 432-1419. Singing teacher, Eileen Turner 439-4661. JM Typing Service. Call Judy 464-7472.

Orchesis Creative Dance presents

DANCE MOTIF '83

March 3,4,5 1983 8:00 PM Students Union Theatre
Tickets: \$5.00 available at all BASS outlets
and through Orchesis members Info: 432-5601

Sailing: Learn to sail in B.C.'s beautiful Gulf Islands. Basic Coastal Cruising, Advanced Coastal Cruising, Flotilla and Skippered Charters. Now booking for 1983. Alberta Yachts 426-4372

Spring will soon be here. Bring in an idea, picture, or pattern and walk out with a garment that's yours alone. Alterations, too. Shirley DeChamplain 10620-126 St. 454-7048. Appointment only.

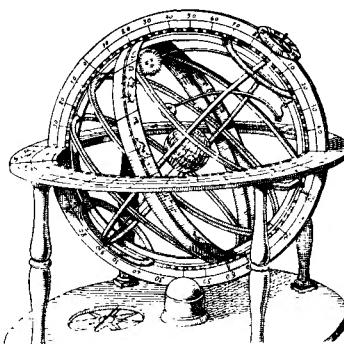
Will do interviewing, coding, keypunch. LaVonne 467-9947

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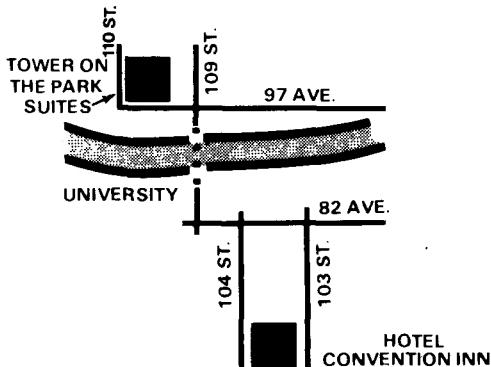
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